

SEQUENCE LISTING

<!10> Findsvogel, Wayne R.
Topouzis, Stavros

<:120> SQLUBLE ZCYTOR11 CYTOKINE RECEPTORS

(130 > 00 - 56)

+450> US 607.023.827

·151> 2000 08-08

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							age Gly									198
		_	-				agg Ang									246
							tgc Cys									294
							ayy Arq 95	_								542
		-		_			gac Asp									390
							acc Thr									438
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				-	-	-	atc He				_					534
							tac Tyr 175									582
							cty Leu									630
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				ecc Pro 415					1302
				ctt Leu					1350
				çtg Leu					1398
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-				aat Asn	-]494
	**			cag Gln 495					1542
				ctc Leu					1590
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				ore Al _i					1686

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3210> 2
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⇒213> Homo sapien
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ser Asn Phe Glu Asn Ile Leu Thr Erp Asp Ser Gly Pro Glu Gly Thr
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Phe	Ser	Series 115	[*** }	1;111	His	Thr	Ihrº 120	1 - 14	į . · .	£'r'r (Fro	Asp 125	Val	Thir	(, ,
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				245			-		250				Val	255	
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< 210 > 3

<2115 211

<212> PPT

×213× Hemo Japiene

< 400 > 3

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Ser ser tog almost the The togget fro Pro Aspijal Turble. The Seritys Lat Ara Ler He Wiln Met The val His Pro The Fro Inc Pro 120 ile Arg Ala ol: Asp Gly His Arg Leu Thr Leu Glu Asp Ile Phe His 135 Asp Leu Phe Tyr His Leu Glu Leu Glin Val Ash Arg Thr Tyr Glin Met 145 155 His Leu Gla Gla Lys Gln Arg Glu Tyn Glu Phe Phe Gly L⊕u Thr Pro 1.70 165 Asp Thr Gla (be Lou Gly Thr Ile Met Ile Cys Val Pro Thr Icp Ala 180 185 190 tus Glu Sen Ala Pro Tyn Met Cys Ang Val Lys Thr Leu Pro Asp And 200 205 The Trp Ihr 210 +(21i)>4·:211:- 6 HUID PRI 국가와 Antificial Sequence +:22(b+ <?23> Glu Glu peptide tag 4.400 - 4. Glu Tyr Met Pro Met Glu

4710× 5 4211× 8

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<.1205

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Asp Tyr L. Alt Asp Asp Asp Lys

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· 111> 699
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                                                                         2.10
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                                                                         480
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gadatogoog tggagtggga gagdaatggg dagdoggaga adaadtadaa gaddaegddt
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tacacgoaga agageototo cotqtotocg ggtaaataa
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-212 - DNA
Hall3> homo sapiens
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                        Met Ala Ala Leu Glin Lys Ser Val Ser Ser Phe
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Leu Met Gly Thr Leu Ala Thr Ser Cys Leu Leu Leu Leu Ala Leu Leu
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gta cag gowlega yew got god soc ato ago too sas tgs agg ott gad
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get aag gag get age ttg get dat aac aac aca gae gtt egt etc att Ala Lys Glu Ala Ser Leu Ala Asp Asn Asn Thr Asp Val Ang Leu Ile 60 - 65 - 70 - 75	.245
ggg gag aaa otg tto dad gga gto agt atg agt gag ogd tgo tat otg Gly Glu Lys Leu Phe His Gly Val Sen Met Sen Glu Ang Cys Tyn Leu 80 85 90	293
atg and dag gtg dtg aad ttd add ott gaa gaa gtg dtg ttd oot daa Met Lys Gln Val Leu Asn Phe Thr Leu Glu Glu Val Leu Phe Pro Gln 95 100 105	341
tot gat agg tto dag oot tat atg dag gag gtg gtg doo tto otg ggd Sen Asp Ang Phe Gin Pho Tyn Met Gin Glu Val Val Pho Phe Leu Ala 110 - 115 - 120	389
agg etc age aac agg eta age aca tgt cat att gaa ggt gat gac etg Arg Leu Ser Asn Arg Leu Ser Thr Cys His Ile Glu Gly Asp Asp Leu 125 - 130 - 135	437
cat ato dag agg aat gtg daa aag dtg aag gad ada gtg aaa aag dtt His Ile Gln Arg Asn Val Gln Eys Leu Eys Asp Thr Val Eys Eys Leu 140 - 145 - 150 - 155	4§5
gga gag agt gga gag atc aaa gca att gga gaa ctg gat ttg ctg ttt Gly Glu Ser Gly Glu Ile Lys Ala Ile Gly Glu Leu Asp Leu Leu Phe 160 165 170	533
atq tot otg aga aat doo tgo att tgaccagago aaagotgaaa aatgaataac Met Sen Leu Ang Ash Ala Cys Ile 178	567
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acateatten atattgetäe tipaututaa quetaatuti patattiatu üchataattä] Îj€x,

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<211 - 36

<212- DNA

^{+213 -} Artificial Sequence

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⁻²²³⁻ Olidonucleotide primo / 2୫୫୯୦

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4.125 DNA
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tac
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4010+ 15
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4172 DNA
H. 13H Artificial Sequence
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+. 23> Oligonucleotide primer ZC29232
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· 49)() > 1'												

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Lys Dys Met Ash Thr Thr Leu Thr Glu Cys Asp Phe Ser Ser Leu Ser
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65 70
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tys Tyr Gly Asp His Thr Lou Arg Val Arg Ala Glu Phe Ala Asp Glu
                     90
            - 85
His Sen Asp Trp Val Asm Ile Thr Phe Cys Pro val Asp Asp Thr Ile
                   105
The Glv Pro Pro Glv Met als val Glu Val Leu Asp Asp Ser Leu His
                             125
      115 120
Met Ang Phe Leu Ala Pro tys The Glu Ash Glu Tyr Glu Thr Trp Thr
130
Met Eys Ash Val Tyr Ash Ser Inp Thr Tyr Ash Val Gln Tyr Trp Lys
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Ash Gly Thr Asp Glu Lys Phe Gln Tie Thr Pro Gln Tyr Asp Phe Glu
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            165
Valieu Arg Asn Leu Glu Pro Irp Thr Thr Tyr Cys Val Gln Val Arg
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			gag Glu									576
		-	cgg Arg		-		-		-		-	624
			cat His			_						672
			ccc Pro 230									720
	-		gāa Glu									768
			dar Agr								 	816

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<212+ PRT
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lys Tyr Gly Asp His Thr Leu Arg Val Arg Ala Glu Phe Ala Asp Glu
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His Sen Asp Inp Val Ash Ile Thr Phe Cvs Pro Val Asp Asp Thr Ile
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The Gl. Pro Pro Gly Met Glm Val Glu Val Leu Asp Asp Ser Leu His
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Met Ang Phe Leu Ala Pro Lys Ile Glu Ash Glu Tyn Glu Thr Trp Thr
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Met Lys Ash Val Tyr Ash Ser Trp Thr Tyr Ash Val Gln Tyr Trp Lys
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val Leu Ang Ash Leu Glu Phy Trp Thr Thr Tyr Tys Val Gln Val Ang
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(3), Gla Gln (10)	Thr Thr		12614 (4)	t. 1 H Pai	ro Ser 200		, ** 1 £ ,	Glv	Ser
ally her Gly 225	Ser alu	Pro Arg 230		,	ys Thr 35	His	Thr`	Cys	Pro 240
rro Cys Pro	Ala Pro '45	Glu Ala	Glu Gl	y Ala Pi 250	ro Ser	Val	Phe	Leu 255	Fhe
Pro Pro Lys	Prollys 260	Asp Thr	leu Me ∂b		er Ang	Thr	Pro 270	ülu	val
Thr Cys Val 275	val val	Asp Val	Ser Hi 280	s Gla A	sp Pro	Glu 285	val	Lys	Phe
Asn Irp Tyr 290	Val Asp	Gl; Val 295	ûlu ∀a	l His A	sn Ala 300	L _y s	Thr	L.y'S.	Pro
Arg Glu Glu 305	,	310		3	15				320
Val Leu His	325			339				3,35	
	340		34	5			350		
Tys Gly Gln 355	-		360	•		365			,
Asp Glu Leu 370		375			380				
Phe Tyr Pro 385	·	390		30	95				400
Glu Asn Asn	405			410				415	
	4.20		42	5			430		
Gly Asn Val 435	Phe Ser	Cyr. Ser	Val Mē 440	t His G	lu Ala	1-90 445	His	Asn	His
Tyr Thr Gln 450		455			460	[5H	val	Pro	Arg
Gly Sen Gly	Ser Gly	Gl. His	His Hi	s His H	is His				

<210- 34

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-223 - Olivitari Cartiste firimer 1800/18	
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< '10> 25 - 11> 65 - 11> DNA - 11> Artificial Sequence	
- 20. - 23- Oliqonucleotide primer 7029231	
ां)कंट 25 Equactgaete gagetaetee ataggeatat actegeeace tgateettta eeeggagaea चुन्नुबन्न	60 65
<pre>cc10c 26 cc11c 70 cc12c DNA cc13c Artificial Sequence</pre>	
-c.d0> -c.33> Oligonucleotide primer ZC39335	
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H. 100-27 H. 11-26 H. 13: Antificial Sequence	
<.20 · <223 · Oligonuciectide primer 2028981	
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+210+1×	

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(141) - [MA
Mar Artitle 13 Sequence
S. 25 () .
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=400> 28
                                                                           60
styactogag chactecata gggatafact oggeacetga forggaasca ogggaacea
gtttacccup agadagggag
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2210 - 29
s211 > 1.45/
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      fused to IgGql with a Glu-Glu tag
=221 > CDS
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atq agg acg etg etg acc atc ttg act gtg gga tec etg get get eac
                                                                          48
Met Arg Thr Leu Leu Thr Ile Leu Thr Val Gly Ser Leu Ala Ala His
                 5
1
                                      10
                                                            15
                                                                          96
god oot gag gad ood tog gat otg otd dag dad gtg aaa tto dag tod
Ala Pro Glu Asp Pro Ser Asp Leu Leu Gln His Val tvš Phe Gln Ser
             20
                                 25
                                                        (30)
ago aao 11t gaa aac ato ctu arg tgg gab ago ggg bra gag ggc acc
                                                                         144
ser Asn the Glu Asn Ile Leu Thr Irp Asp Ser Glv Pro Glu Gly Thr
                             -40
                                                                         192
con que aculato, tas, ago inteligraga tat aug acquitac qua quaq aqqi quaq
Pro Asplike val lye see The Glu Tyr Lys Thr Tyr Gly Glu Arg Asp
     141
                                               (h)
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tga sitt in Elaaa aag age tigt slaa saa atc acc bag aag teb tgb aab
imp val Alayes (v. biv eze alm Ama I be The Ama I vs Son Cys Asm
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			134 (11)4													288
			aqt Ser 100									_				336
	-		cta Leu									-				384
			gtá Val													1 jin 406
			gca Ala	-	-						-	-	_			480
			ttc Phe				-									5.28
			gga Glv 180			-										576
	-		gag Glu						-							624
_			agt Serr													672
			Her.													'20
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				gt. Val											δlu
				acc Thr											864
				qaq Glu											015
				aag Lys									ago Sen		9 <u>6</u> 0
				agc Sen 325											1008
				aag Lys											1056
				atc He										-	1104
gtq Val				ccc Pro										~	1152
				ctg Leu											1/00
				aat Arin Arin											1248

			4a6 Asp 420											1.50b
			agc Ser							_				1344
			get Ala											1392
			aaa Lys		-									1440
		atg Met	×											1452
-010> 30 -011> 484 -012> PRT -013> Antificial Sequence														
<pre><220> -223> peptide encoded by the hzcytorll extracellular cytokine binding domain fused to IgGgl with a Glu Glu tag of SEQ ID NO: 29</pre>														
·;.4()()→ 3()												

Met Arg Thr Leu Leu Thr Ile Leu Thr Val Gly Ser Leu Ala Ala His I 5 10 15
Ala Pro Glu Asp Pro Ser Asp Leu Leu Gln His Val Lys Phe Gln Ser 20 25 30
Ser Asn Phe Glu Ash Ile Leu Thr Irp Asp Ser Glv Pro Glu Gly Thr 35 40 45
Pro Asp Thr Val Ivr Ser Ile Glu Tyr Lys Thr Tyr Glv Glu Arg Asp 50 50 50 55 60
Irp Val Ala Lys Lys Gly Tyz Gln Arg Ile Thr Arg Lys Ser Cvs Ash 65 70 56 80

Leu	Thr	. 1'	, i ,	Har Bb	-,1),			*th		: : 11	iyr	l 🖟	-si.;}	Ama Sasy	ا ئى د
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Phe '	Ser	Ser 115	1.60	Gln	His	Thr						Asp 125	VаТ	Thr	Cys
He.	Ser 130	l y ,	√al	Arg	5er	He 135	Gln	Met	[]+2	Val	His 140	Pro	Thr	Pro	Thr
145					lād					155			,		Phe 160
Hit /	,			165					1.70			-		175	
Met I			180					185					100		
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Ang 225 Seriv					230					235					240
Gly A	,	3		245		,			250					255	
Met			260					265					270		
His (275					280					285			
4	290	,				295			,	-	300				
305 Tyr 4					310					315					320
Ğly t				325					330			,		335	
∏ë (340					345					350		
Val		355					36()					365			
	3/0					375	(1) 7				380				
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Val Aup Lys Ser Ard Trp olm olm Gly Asm val Pho Sen Cys Ser Val 435 - 440 - 445	
Met His Glu Ala Leu His Ash His Tyr Thr Gln Lys Ser Leu Ser Leu 450 460	
Ser Pro Gly Lys Leu Val Pro Arg Glv Ser Gly Ser Gly Gly Glu Tyr 465 470 425 480	
Met Pro Met Glu	
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<21(⇔ 33 <211 > 199	
<212 - PRI <213 - Homo saptems	
<460 > 33	
Met Val Pro Pro Pro Glu Asnival Ard Met Asniver val AsniPhe Lys 1 5 15	

Ash The Learn's Try May See the Aladre Aladre in Alacter Inc Phe The Alardo Tve Leu See Car Ara Do Phe Gle Aspiron. Met 411 Asn Thr Thr Leu Thr Glu Cvs Asp Phe Ser Ser Leu Ser Lvs Tvr Gly 55 50 Asp His Ihr Leu Ang Val Ang Ala Glu Phe Ala Asp Glu His Sèr Asp 70 Trp Val Asn Ele Thr Phe Cys Pro Val Asp Asp Thr Ile Ile Gly Pro 90 85 Pro Gly Met Gln Val Glu Val Leu Ala Asp Ser Leu His Met Ara Phe { ()() 105 Leu Ala Prolivs Ile Glu Ash Glu Ivr Glu Thr Trp Thr Met Lys Ash 1.20 Val Tyn Asn Sen Trp Thr Tyn Asn Val Gln Tyn Trp Lys Asn Gly Thr 140 135 Asp Glu Eys Phe Gln Ile Thr Pro Gln Tyr Asp Phe Glu Val Leu Arg 150 155 145Ash Leu Glu Pro Trp Thr Thr Tyr Cvs Val Gln Val Arg Glv Phe Leu 165 170 Pro Asp Ang Asm Lys Ala Gly Glu Trp Ser Glu Pro Val Cys Glu Glm -180185 Thir Thr His Asp Glu Thr Val 195

<.110 34

-. 11 - 211

-: 12 - PRI

∹2'13> Homo sapiens

 $\sim 400 - 34$

Ser Asp Ala His Gly Thr Glu Leu Pro Ser Pro Pro Ser Val Irp Phe 1 5 10 15 Glu Ala Glu Phe Phe His His Ile Leu His Trp Thr Pro Ile Pro Asn 20 25 30 Gln Ser Glu Ser Thr Cys Tyr Glu Val Ala Leu Leu Ard Tyr Gly Ile 35 40 45 Glu Ser Irp Ach Ser Ile Ser Ach (2) Ser Gln Thr Leu Ler Tyr Acp 50 65 60 60 Leu Thr Ala 2al Thr Leu Asp Leu Tyr His Ser Ach Gly Tyr Arg Ala 65 70 75 86

Ang Val Ang Ala . P A : P'. For Ang Holl for Ann Espolho val Har 945 Asn The Ang the ser .at Asp alu Val Hungeu The Val Glv Ser Val 14911 105 Ash Leu Glu Ile His Ash Glv Phe Ile Leu Glv Evs Ile Gln Leu Pro 120 Ang Pho Lys Met Ala Pho Ala Ash Asp Thr Tyr Glu Ser Ile Phe Ser 134 1.40 His Phe Ang Glu Ivr Glu Fle Ala Ile Ang Evs Val Pro Gly Ash Phe 150Thr Phe Thr His Ly. Lys Wal Lys His Glu Ash Phe Ser Leu Leu Thr 1000 1 () Ser Gly Glu val Gly Glu Phe Cys Val Gln val Lys Pro Ser Val Ala 180 185 190 ber And Ser Ash Lys Gly Met Imp Ser Lys Glu Glu Cys Ile Ser Leu 200 205 Thr Arg Gln 210

+210≥ 35

4211 201

-:212≥ PRT

-213> Homo sapiens

-400 > 35

Asp Glu Val Ala Ile Leu Pro Ala Pro Gln Asm Leu Ser Val Leu Ser 1 5 10 Thin Ash Met Eys His Leu Leu Met Trp Sen Pro Val Ile Ala Pro Gly 20, Glu Ibr Val Tyr Tyr Ser Val Glu Tyr Glo biy Glu Tyr Glu Ser Leu 40 Tyr Thin Sen His Ile Imp Ile Pho Sen Sen Imp Cys Sen Leu Ihn Glu 60 55 Gly Pro Glu Cys Asp Val Thr Asp Asp Ile Thr Ala Thr Val Pro Tyr 11 Ash Leu Ang Val Ang Ala Thr Leu Gly Ser ilh Thr Ser Ala Inp Ser 5 **21**] Min The Leu Live Him in the Ash And And Ash for The He Leu The Ang Pro-105Gly Met alo The The Lys Aspeals Pharlet Leaval He Glo Lea alo 115

- Fro div Ala Glu Glu Hossal two Met Val Angleen al. dly Ile Pro 146 - 156 - 160
- %al Hr. Leu Glu Thr Met Giu Pro Gly Ala Ala Tyr Cys Val Lys Ala 165 \$170\$ 175
- Glm Thr Phe Val Lys Ala II. Gly Arg Tyr Ser Ala Phe Ser Glm Thr 180 185 190
- Glu tys Val Glu Val Gln Gl. Alu Ala 195